BVRIT HYDERABAD College of Engineering for Women TEAM 3

EMPLOYEE TERMINATION

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PROBLEM STATEMENT

- Termination is one of the activities which happens in any organization. There are several factors which are considered for terminating an employee from his job. HR records all the information and facts about all employees.
- The challenge is to identify whom to terminate and keep the productivity of the company in an increasing order.

PYTHON PACKAGES

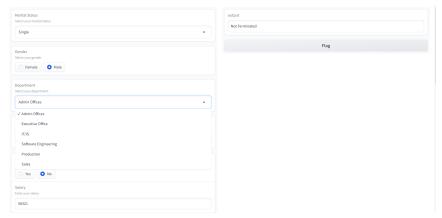
- Numpy
- Pandas
- Matplotlib
- sklearn
- gradio

Algorithm

- KNN
- SVC
- Naive Bayes Classifier
- Decision Tree
- Random Forest Classifier
- Logistic Regression

OUTPUT

Prediction of Employee termination



Comparison Table

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	MLA used	Train Accuracy	Test Accuracy	Precission	Recall	AUC
2	svc	0.9476	0.9206	1.000000	0.772727	0.886364
5	RandomForestClassifier	0.9073	0.9048	1.000000	0.727273	0.863636
1	LogisticRegression	0.8710	0.8730	1.000000	0.636364	0.818182
4	MultinomialNB	0.8024	0.7937	0.800000	0.545455	0.736142
0	KNeighborsClassifier	0.8468	0.7778	0.722222	0.590909	0.734479
3	DecisionTreeClassifier	0.6694	0.6508	0.000000	0.000000	0.500000

Figure shows a model comparison graph.

THANK YOU!